# OUTLINE OF CURRENT FUEL RELEASE MONITORING SYSTEMS REPORT 15 January 2016

#### **SECTION 1 INTRODUCTION**

#### 1-1 BACKGROUND

Summarize the background of this Red Hill effort leading to the preparation of this report.

#### 1-2 PURPOSE AND SCOPE

Describe the purpose of this Current Fuel Release Monitoring Procedures report, and the content that will be presented in the report based on the requirements of the Agreement of Consent.

#### **SECTION 2 RECORDKEEPING PROCEDURES**

#### 2-1 INTRODUCTION

Provide a brief description of the content included in this section of the report.

## 2-2 AUTOMATED FUEL HANDLING EQUIPMENT (AFHE) AND FUEL MANAGER DEFENSE (FMD) RECORDS

Provide content describing various documents retained from Fleet Logistics Center Pearl Harbor's AFHE and FMD systems

#### 2-2.1 Location of records

Provide content describing location retention requirements based on record formats

#### 2-2.1.1 Primary retention location

Describe applicable DoD policies and references

#### 2-2.1.2 Secondary retention location

Describe applicable DoD policies and references

#### 2-2.2 Retention periods

Describe applicable DoD policies and references

#### 2-3 TANK TIGHTNESS REPORTS

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SECTION 3	DYNAMIC RE-FILLING PROCEDURES FOR TANK RE-
2-6.2.1	Retained indefinitely
2-6.2	Retention period
2-6.1.1	Physical copies are retained at NAVFAC-HI, DLA-Energy Pacific, and FLCPH
2-6.1	Location of records
2-6	GROUND WATER MONITORING REPORTS
2-5.2.1	Retained indefinitely
2-5.2	Retention period
2-5.1.1	Physical copies are retained at NAVFAC-HI, DLA-Energy Pacific, and FLCPH
2-5.1	Location of records
2-5	GROUND WATER INTERFACE TESTING RECORDS
2-4.2.1	Retained indefinitely
2-4.2	Retention period
2-4.1.1	Physical copies are retained at NAVFAC-HI, DLA-Energy Pacific, and FLCPH
2-4.1	Location of records
2-4	SOIL VAPOR MONITORING RECORDS
2-3.2.1	Retained indefinitely
2-3.2	Retention period
2-3.1.1	Physical copies are retained within Fleet Logistics Center Pearl Harbor's (FLCPH) Technical library
2-3.1	Location of records

**COMMISSIONING** 

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3-1	INTRODUCTION
	Provide a brief description of the content included in this section of the report
3-2	PREVIOUS DYNAMIC RE-FILLING PROCEDURES FOR TANK RE-COMMISSIONING
	Provide 2014 decommissioning tank fill procedures as Appendix A
3-3	LESSON LEARNED FROM RED HILL TANK 5
3-4	CURRENT TANK RE-FILLING PROCEDURES FOR TANK RE-COMMISSIONING
3-4.1	Provide summary of NAVSUP GLS Instruction 10345.1 implementation at FLCPH
3-4.2	Provide summary of site-specific procedures
3-4.3	Provide NAVSUP GLS Instruction 10345.1 in Appendix B
SECTION 4	DYNAMIC FILLING PROCEDURE FOR DAILY OPERATIONS
4-1	INTRODUCTION
4-1	INTRODUCTION  Provide a brief description of the content included in this section of the report.
4-1 4-2	Provide a brief description of the content included in this section of the
	Provide a brief description of the content included in this section of the report.  CURRENT DYNAMIC FILLING PROCEDURE FOR DAILY
4-2 4-2.1	Provide a brief description of the content included in this section of the report.  CURRENT DYNAMIC FILLING PROCEDURE FOR DAILY OPERATIONS
4-2 4-2.1	Provide a brief description of the content included in this section of the report.  CURRENT DYNAMIC FILLING PROCEDURE FOR DAILY OPERATIONS  Provide summary of FLCPH's current dynamic tank filling procedures
4-2 4-2.1 SECTION 5	Provide a brief description of the content included in this section of the report.  CURRENT DYNAMIC FILLING PROCEDURE FOR DAILY OPERATIONS  Provide summary of FLCPH's current dynamic tank filling procedures  STATIC AND DYNAMIC RELEASE DETECTIONS SYSTEMS
4-2 4-2.1 SECTION 5	Provide a brief description of the content included in this section of the report.  CURRENT DYNAMIC FILLING PROCEDURE FOR DAILY OPERATIONS  Provide summary of FLCPH's current dynamic tank filling procedures  STATIC AND DYNAMIC RELEASE DETECTIONS SYSTEMS  INTRODUCTION  Provide a brief description of the content included in this section of the

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	systems
5-2.1	Automated Fuel Handling Equipment (AFHE): Inventory management System
5-2.1.1	Monitored 24/7
5-2.1.2	Not a certified release detection system
5-2.2	Procedures implemented to compliment AFHE in order to detect leaks
5-2.3	Tank Tightness Testing
5-2.3.1	Conducted annually
5-2.3.2	In accordance with 40 CFR 280
5-2.4	Soil Vapor Monitoring
5-2.4.1	Conducted monthly
5-2.5	Water Interface Testing
5-2.5.1	Conducted monthly
5-2.6	Ground Water Monitoring Testing
5-2.6.1	Conducted quarterly
5-3	DYNAMIC RELEASE DETECTION SYSTEMS
	Provide a brief delineation between static and dynamic release detection systems
5-3.1	Research into applicable dynamic release detection systems
SECTION 6	RELEASE DETECTION SENSITIVITY
6-1	INTRODUCTION
	Provide a brief description of the content included in this section of the report
6-2	AUTOMATED FUEL HANDLING EQUIPMENT (AFHE)

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0-2.1	Unscheduled Fuel Movement Alarms
6-2.1.1	Tank inventory in static state
6-2.1.1.1	Warning alarm actuated when 0.5 inch of movement is observed
6-2.1.1.2	Critical alarm actuated when 0.75 inch of movement is observed
6-2.1.2	Tank inventory in dynamic state
	Provide definition of a dynamic state
6-2.1.2.1	Warning alarm actuated with one inch of movement is observed
6-2.1.2.2	Critical alarm actuated when 1.5 inches of movement is observed
6-3	TANK TIGHTNESS TESTING LEAK DETECTION RATE
6-3.1	0.5 gallons per hour
6-4	SOIL VAPOR SENSITIVITY
6-4.1	1 part per billion
6-5	WATER INTERFACE SENSITIVITY
6-5.1	0.01 foot
6-6	GROUND WATER MONITORING SENSITIVITY
6-6.1	Varies based on testing method
6-6.1.1	Ranges from 0.0040 to 25 parts per billion
SECTION 7	PREVIOUSLY COMPLETED 2008 MARKET SURVEY OF LEAK DETECTION SYSTEMS FOR THE RED HILL FUEL STORAGE FACILITY, FLEET INDUSTRIAL CENTER, PEARL HARBOR, AND THE 2014 ADDENDUM 1 TO THE 2008 MARKET SURVEY
7-1	INTRODUCTION
	Provide a brief description of the content included in this section of the report
7-2	PREVIOUSLY COMPLETED 2008 MARKET SURVEY OF LEAK

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DETECTION SYSTEMS FOR THE RED HILL STORAGE FACILITY, FLEET INDUSTRIAL CENTER, PEARL HARBOR

7-2.1	Will be provided in Appendix F
7-3	2014 ADDENDUM 1 TO THE 2008 MARKET SURVEY
7-3.1	Will be provided in Appendix G

**APPENDIX A - 2014 Recommissioning Tank Fill Procedure** 

**APPENDIX B - NAVSUP GLS Instruction 10345.1** 

**APPENDIX C - SOP Excerpt of Dynamic Filling Procedure** 

**APPENDIX D - Current Tank Tightness testing procedure** 

**APPENDIX E - Alarm Response Procedure** 

APPENDIX F - Previously Completed 2008 Market Survey of Leak Detection Systems for the Red Hill Storage Facility, Fleet Industrial Center, Pearl Harbor

APPENDIX G - 2014 Addendum 1 to the 2008 Market Survey

Additional Appendices as needed